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25X1

7 January 1959

MEMORANDUM FOR: Director, PIC

SUBJECT: Visit to Navy PIC, Suitland, Maryland

1. PIC was visited on 6 January 1959, and [redacted] gave a very comprehensive tour and rundown on operations.

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2. The main subject of interest was the method of rectifying photography in order to use it for laying controlled mosaics. The steps are as follows:

A type photography

a. A roll of A type negative photography is placed in an easel and backed with frosted acetate and back-lit with carbon arc lamps. With the use of a copy camera the film is copied on aerial copy film and at the same time reduced to 9 inches on its largest dimension.

b. The film is then examined; those frames which deviate in tilt from the rest of the run are noted; and through the use of a simple formula the deviation in tilt from the norm is decided upon. The film is then placed in the rectifier and back-lit as before, and the lock-on-angle for those frames that appear normal or the correction to the lock-on angle is used for rectification.

c. Prints to the desired scale are then made from the film produced in the rectification camera.

d. It is to be noted that the change in principal distance is taken into account when going through the various steps.

e. By proper cropping of the prints when preparing the controlled mosaic, additional sterilization is achieved in addition to the change in metrics which occurs during the reduction copying and rectification.

f. No appreciable loss in image resolution occurs until the prints are made and the mosaic is copied.

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**SUBJECT: Visit to Navy PIC, Suitland, Maryland**

**B type photography**

a. The corresponding pairs of B photography negatives are clipped and mounted in a double mask, back-lit, and reduction copied as before.

b. The lock-on-angle for the pair is determined, and any deviation from the normal due to tilt is applied as a correction.

c. The rest of the procedure follows very closely to that used in A type photography.

3. The rest of the section at NPIC was visited, and it proved to be a very interesting and pleasant tour. All spaces and pieces of equipment were in excellent shape. The Log E enlarger and contact printers were all functioning in top shape, unlike those in the rest of NPIC and at NPC. NPIC has not been having the same trouble of blowing fuses with their WILD enlarger that we have. The two NISTRI people had the instruments completely torn down and seemed to be making progress.

4. In addition the R & D section of NPIC was visited. The gold leaf titler is functioning and being evaluated. The Fairchild scanigraver is being used extensively to make test plates for the 15 E 5. Both flat plates and three dimensional vacuum formed plates after engraving are being made. The work on visual terrain simulation for low-flying aircraft is still being conducted using a movie camera and a movable 3D model.

SA/Dir/PIC

**Distribution:**

- 1 - Addressee
- 2 - [redacted]
- 3 - [redacted]
- 4 - PIC Chrono

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